

CLIMATE DECLARATION FOR ASPHALT MIXTURES FROM GÄVLE ASPHALT PLANT

Functional unit: 1000 kg asphalt mixture

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD®, in accordance with ISO 14025 and EN 15804.



Information about the product

The asphalt mixtures declared are manufactured at the asphalt plant in Gävle, by NCC Industry, Division Asphalt in Sweden. In 2020, about 156 000 tonnes of asphalt mixtures were produced at the plant. The mixtures declared are the most common ones during the year of production. The asphalt mixtures that can be produced at the declared plant are hot mix asphalt (HMA), warm mix asphalt (WMA), soft bitumen asphalt (SA) and polymer modified asphalt (PMB).

Information about the company

NCC is one of the leading construction and property development companies in the Nordic region, with sales of 5.4 billion Euro and approximately 14 500 employees in 2020. With the Nordic region as its home market, NCC is active throughout the value chain – developing commercial properties and constructing housing, offices, industrial facilities and public buildings, roads, civil engineering structures and other types of infrastructure. NCC also offers input materials used in construction and accounts for paving and road services.

Climate declaration A1-A3

The table below lists the emissions of greenhouse gases A1-A3 for the product in kg CO₂ eq. per 1000 kg asphalt mixture.

	ABT 11 160/220 Hand	ABT 11 160/220	ABT 11 160/2 20 LTA	ABT 11 100/150	ABT 11 100/15 0 LTA	ABT 11 70/100
GWP - Total	16	14	13	14	13	15
GWP - Fossil* **	16*	14*	13*	14*	13*	15*
GWP-Biogenic ***	0	0	0	0	0	0

GWP - Luluc	0.046	0.047	0.043	0.047	0.044	0.047
GWP - GHG****	16	14	13	14	13	15
ABT 11 70/100 LTA	ABS 11 70/100 An7	ABS 11 70/100 An7 LTA	ABT 16 70/100	ABT 16 70/10 0 LTA	ABT 16 160/220 0 LTA	ABT 16 70/100 An7
17	18	18	14	14	13	13
17*	18*	18*	14*	14*	13*	13*
0	0	0	0	0	0	0
0.043	0.070	0.066	0.047	0.044	0.047	0.043
17	18	18	14	14	13	13
ABT 16 70/100 An7 LTA	ABS 16 70/100 An7	ABS 16 70/100 An7 LTA	AG 16 70/100	AG 16 70/10 0 LTA	AG 16 160/220 LTA	AG 16 160/220 LTA
15	18	17	11	13	10	9.9
15*	18*	17*	11*	13*	10*	9.9
0	0	0	0	0	0	0
0.056	0.070	0.066	0.047	0.042	0.046	0.043
15	18	17	11	13	10	9.9
ABB 22 70/100 LTA	ABB 22 70/100 LTA	AG 22 70/100	AG 22 70/100 LTA	AG 22 160/2 20	AG 22 160/220 LTA	ÅAHV MJOG V1500
13	13	12	11	10	9.9	9.9
13*	13*	12*	11*	10*	9.9*	9.9*
0	0	0	0	0	0	0
0.046	0.042	0.046	0.043	0.060	0.056	0.038
13	13	12	11	10	9.9	9.9

* The default value in the Swedish Transport Administration's tool Klimatkalkyl is 49 kg per tonne asphalt mixture (6.5% bitumen) for A1-A3 (Trafikverket. Klimatkalkyl version 7.0. 2021). ** The default value in Klimatkalkyl is 22 kg per tonne asphalt mixture (called "halvvarm asfalt") for A1-A3 (Trafikverket. Klimatkalkyl version 7.0. 2021). *** This indicator is set to zero. due to inconsistencies in the dataset used delivered by Sphera. Though, net result over the life cycle is zero since carbon uptake and emission is zero during a life-cycle. **** "GWP - total" but excluding "biogenic"

For the full EPD, see www.environdec.com.

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INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025: EPD PROCESS CERTIFICATION BY BUREAU VERITAS		ACCREDITED / APPROVED BY: THE INTERNATIONAL EPD SYSTEM	
CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE			
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